L 29336-66 EWT(m)/T/EWP(t) IJP(c) WW/JD/JG
ACC NR. AR6004371 SOURCE CODE: UR/0081/65/000/015/E068/E068

AUTHOR: Repenko, K. N.; Getman, I. A.; Gul'ko, N. V.

TITLE: Stabilization and destabilization of zirconium dioxide cubic form

SOURCE: Ref. zh. Khimiya, Abs. 15B488

REF SOURCE: Sb. nauchn. tr. Ukr. n.-1. in-t ogneuporov, vyp. 7(54), 1963, 204-212

TOPIC TAGS: zirconium, zirconium oxide, zirconium compound, cubic crystal, structure stability, Cao, Mcc. heat change of state, vacuum chamber, CHEMICAL JTAGILIZATION, SOLID SOLUTION

ABSTRACT: The stabilization of ZrO<sub>2</sub> in a commercial zirconium dioxide (93.96%ZrO<sub>2</sub>) was studied by methods of chemical, x-ray, and petrographical analyses, with the addition of CaO, MgO, CaZrO<sub>3</sub>, Ti or Zr. The stability of ZrO<sub>2</sub>-CaO- and ZrO<sub>2</sub>-MgO solid solutions with prolonged heating on air and in a vacuum at 1200° and short heating in a vacuum at 2100° was also investigated. For a complete transition of monoclinic Zr<sub>2</sub> into cubic Zr<sub>2</sub> an addition of 5% MgO or 2.5% MgO + 2.5% CaO is sufficient. However, an addition of 5% of CaO is inadequate.

Card 1/2

of binding of destabi	MgO and Calization of sing Ca com	solid	zro, was e solutions for stabil	alculated the most	expedie	d on ex nt way	erime was for	ents
processes	in a vacuum	n. D. A.	,	221.05	,5, cape	clarij	101	
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ACC NR: AP6034760

SOURCE CODE: UR/002G/66/170/005/1140/1142

TO BEFORE THE PROPERTY AND THE PROPERTY OF THE

AUTHOR: Tarnopol'skaya, R. A.; Gul'ko, N. V.

ORG: Ukrainian Institute of Refractories (Ukrainskiy institut ogneuporov)

TITLE: Structure of the strontium oxide-zirconium dioxide system

SOURCE: AN SSSR. Doklady, v. 170, no. 5, 1966, 1140-1142

TOPIC TAGS: high temperature ceramic material, oxide ceramic, strontium oxide, zirconium dioxide, zirconate, phase diagram, refractory compound, atomium compound girconium compound

ABSTRACT: The Sr0-Zr02 system has been restudied to check the existence of the previously reported  $Sr_2Zr0_4$  compound and to plot the phase diagram of the system. The study is of interest for the technology of ceramics and refractories. Microscopic, x-ray, and chemical analyses of the annealed samples of various Sr0:Zr02 compositions confirmed the existence of two compounds within the system, one of them  $SrZr0_3$ . The sample of a composition corresponding to  $Sr_2Zr0_4$  was found to contain  $Sr_5Zr_30_{11}$  and free Sr0. The newly detected  $Sr_5Zr_30_{11}$  was synthesized from the oxides at 1300-1500C and  $SrZr0_3$  was formed at 1200-1400C. The compound  $Sr_5Zr_30_{11}$  melts incongruently at  $\sim 2200C$  yielding  $SrZr0_3$ . Physical properties of  $Sr_5Zr_30_{11}$  were determined. The experimental fusibility data of various  $Sr0:Zr0_2$  compositions differed substantially with the earlier data of H. Wartenberg and H. Werth (Zs. anorg. u allgem. chem., 190, 178 (1930)). An approximate phase diagram

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UDC: 541.123.2

f the SrO-ZrO <sub>2</sub>	8760 system was	establishe	d which exh	ibite two	eutectic	points: 2100	C and
nd 2270C which ion of solid a y Academician	solutions in	the system	was not ob	served.	The paper v	was presented	rorma-
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ACC NR: 45034572

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AUTHOR: Tarnopol'skaya, R. A.; Gul'ko, N. V.

ORG: Ukrainian Scientific Research Institute of Refractories, Kharkov (Ukrainskiy nauchno-issledovatel\*skiy institut ognouporov)

TITLE: Subsolidus structure and fusibility curve of the SrO-Al203-ZrO2 system

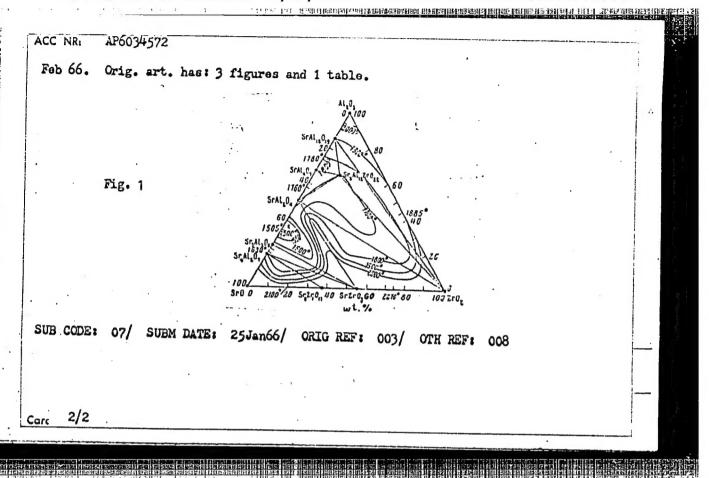
SOURCE: AN SSSR. Doklady, v. 170, no. 6, 1966, 1380-1382

TOPIC TAGS: strontium compound, aluminum oxide, zirconium compound, phase diagram, refractory

ABSTRACT: The subsolidus structure of the SrO-Al<sub>2</sub>O<sub>3</sub>-ZrO<sub>2</sub> system was studied by microscopic and x-ray methods on sintered samples at 1600-2000°C. The triangulation of the system was performed and is shown in Fig. 1. Judging from the lack of change in the optical and x-ray constants of the compounds formed, no appreciable concentrations of ternary solid solutions are formed in the system. Fig. 1 also shows the fusibility curve of the system. The most fusible eutectic is located close to the eutectic of the binary system Sr<sub>3</sub>Al<sub>2</sub>O<sub>6</sub>-SrAl<sub>2</sub>O<sub>4</sub> and melts at about 1500°C. It was found that the SrO-Al<sub>2</sub>O<sub>3</sub>-ZrO<sub>2</sub> system contains a broad range of compositions suitable for the preparation of refractories with service temperatures up to 1600°. The x-ray analysis was performed by S. V. Lysak. The paper was presented by Academician Belov, N. V., 17

Card 1/2

UDC: 541.123.3



计工程 中部工作 电影性性性的复数形式 医氯酚磺酰胺胺 旅游戏剧剧 经被制制制的现代的指示法 法对共同 不可是 电电路式 法经 L 29333-66 ENT(m)/I/ENP(e)/ENP(t)/EII LJP(c) WH/WW/JD/JG AP6002855 SOURCE CODE: UR/0021/65/000/012/1592/1595 (A) AUTHOR: Berezhnoy, A. S. (Corresponding member AN UkrSSR); Hul'ko, N. V. Gul'ko, N. V. ORG: Ukrainian Institute of Refractories (Ukrayins kyy instytut vohnetryviv) TITLE: Subsolidus structure of the Cap-Mgg-Cr263-Zr62-Ti62 system and its four-component subsystems SOURCE: AN Ukr RSR. Dopovidi, no. 12, 1965, 1592-1595 TOPIC TAGS: solid solution, themistry, chemical composition, refractory, refractory product, refractory oxide, oxide ceramic, melting point ABSTRACT: Sixty-one coexistent pairs of phases were found in the five-component  $\frac{\text{Ca}0^{-1}\text{Mg}0^{-1}\text{Cr}_2^2\text{b}_3^{-1}\text{Zr}0_2^{-1}\text{Ti}0_2$  system and the length of the conodes between the phases were determined. The elementary tetrahedra of the four  $\text{Ca}0^{-1}\text{Mg}0^{-1}\text{Cr}_2^2\text{b}_3^{-1}\text{Zr}0_2^{-1}$ , CaO-MgO-Cr<sub>2</sub>0<sub>3</sub>-TiO, CaO-Cr<sub>2</sub>0<sub>3</sub>-ZrO<sub>2</sub>-TiO<sub>2</sub>, and MgO-Cr<sub>2</sub>0<sub>3</sub>-ZrO<sub>2</sub>-TiO subsystems containing Cr<sub>2</sub>0<sub>3</sub> were drawn. The five-component system was divided into 16 elementary pentatopes and their relative volume was calculated. The presence of continuous  ${
m MgCr_2O_4-Mg_2TiO_4}$  and  ${
m CaZrO_3-CaTiO_3}$  solid solutions was established. It was found that the  ${
m CaTiO_3-Cr_2O_3}$  and  ${
m CaTiO_3-ZrO_2}$  eutectic type pseudobinary systems with limit ed solid solutions have eutectic temperatures of 2080 K and 2050 K, respectively. The data show that goods with high refractoriness cannot be manufactured from combinations of peroffskite end high-melting  $\mathrm{Cr}_2\mathrm{O}_3$  or  $\mathrm{ZrO}_2$  but that they can be utilized as

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1800 K. C	orig. art. has:	5 figures	and 2 table	s.	iatures not	exceeding	
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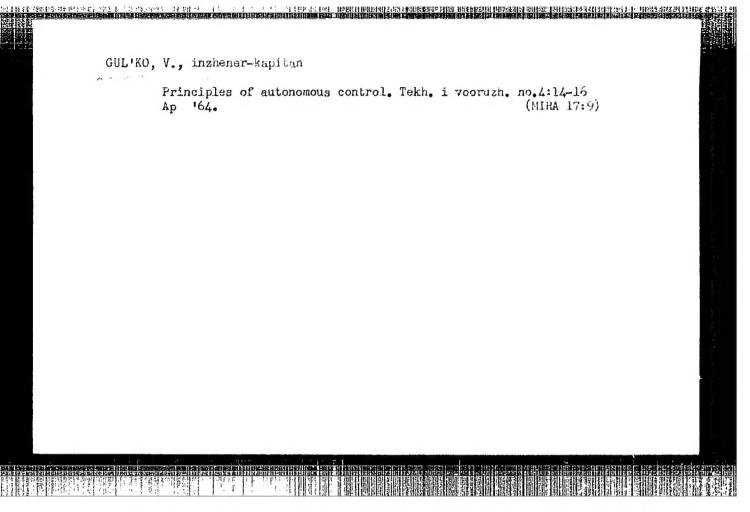
GUL'KO, T.G. [Hul'ko, T.H.], prepodavatel'

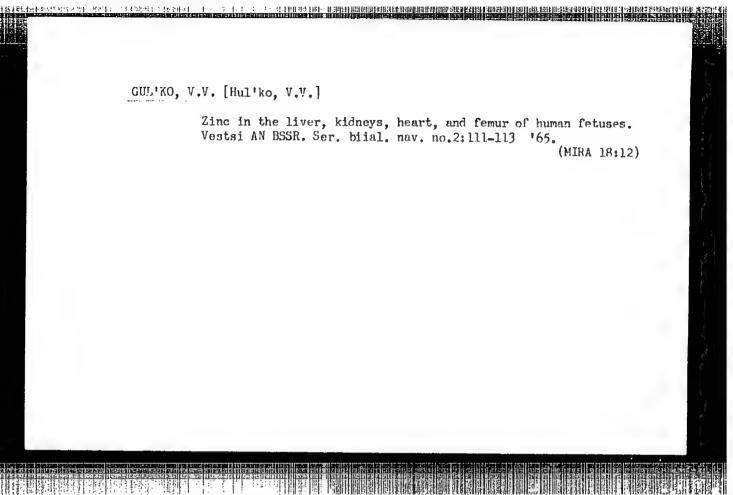
Refueling tractors and trucks in winter. Mekh.sil'hosp. 10 no.2:12 F '59. (MIRA 12:6)

1. Novoushitskiy tekhnikum mekhanizatsii sel'skogo khozyaystva Khmel'nitskoy oblasti.

(Tractors--Cold weather operation)
(Motortrucks--Cold weather operation)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000617320001-1"





Schlack, F.E.

Avtomaticheskie linii stankov. Kiev, Eashgiz, 1951. 136 p.

Automatic assembly lines of machine-tools.

So: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

BEKOV, D.B.; GULL', Ye.A.; BEKOVA, K.S.

Mixed tumors of the abdominal cavity. Khirurgiia 37 no.3:113-114 Mr '61. (MIRA 14:3)

1. Iz Stavgorodskoy gorodskoy bol'nitsy (glavnyy vrach G.R. Ivanov) Altayskogo kraya.

(ABDOMEN—TUMORS)

KUL'BA, F.Ya.; MAKASHEV, Yu.A.; GULLER, B.D.; KISELEV, G.V.

Study of complex formation between thallium (III) and
1, 10-phenanthroline and 2, 21-bipyridine by the extraction method.
Zhur.neorg.khim. 7 no.3:689-690 Mr '62. (MIRA 15:3)

1. Leningradskly tekhnologicheskiy institut imeni Lensoveta,
kafedra neorganicheskoy khimii.

(Thallium compounds) (Phenanthroline) (Bipyridine)

GULLYYEV, A.; SHTEYNBERG, D.M., prof., rukovoditol' reboty

Insect posts of field crops of the Tedzhen Casis. izv. AN Turk.

SSR. Ser.biol.nauk no.5:71-75 '65.

(AIRA 18:11)

1. Institut pustyn' AN Turkmenskoy SSR.

GUL'MAMEDOV, Kh.; STEPANOV, V.

Total number of meteors according to observations made in Ashkhabad.

Izv. AN Turk. SSR. Ser. fiz.-tekh., khim. i geol.nauk no.5:129 '61.

(MIRA 14:11)

1. Fiziko-tekhnicheskiy institut AN Turkmenskoy SSR.

(Meteors)

GUI 'MAMEDOV. M. (
42474. O Vozmozhnostyakh Kul'tury Tsvetnoy Karusty V Tadzhikistane, Zaniski
Tadzh. S.-Kh. In-Ta, T.I., 1948, S. 209-12.

. (三) (1917年),1916年(1919年),1918年(1919年),1919年),1919年(1919年),1919年),1919年(1919年),1919年),1919年),1919年(1919年),1919年,1919年,1919年

GUL MARLEDOV, M. G.

"The Transfer of Flowering bushes to the Conditions of the Gissar Valley in Tadzhikistan." Cand Agr Sci, Department of Natural Sci, Acad Sci Tadzhikistan SSR, Stalinabad, 1954. (KL, No 5, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (13) SO: Sum. No. 598, 29 Jul 55

USSR/Cultivated Planes - Potatoes, Vegetables, Melons.

Abs Jour : Ref Zior - Biol., N. 10, 1,53, Well3

Author : Gal', at adev, M.

Inst : Tedziili Agricultural Instituto.

Title : Grewing Cauliflower in Je Gossar Valley.

Orig Pub : S. kh. Tadzhikistan, 1957, H. 1, 45-49

Abstract : It was established at the Todanik Agricultural Institute.

in 1947-1949 that under the conditions prevailing in Stalinabedskiy rayon cauliflower planted in fall force a normal head in spring. Feeling quality production is is necessary to maintain the necessary reisture level in the soil and in the air by means of more frequent waterings. Sowing the seeds during the first and the second ten days of January and raising the seedlings in small

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- 60 -

## APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000617320001-1"

Abs Jour : Ref Jur - Biol., No 10, 1850, 44113

reeding pots make it possible we have the crop lo-15 days carlier. -- L.H. Chemmyth

Card 2/2

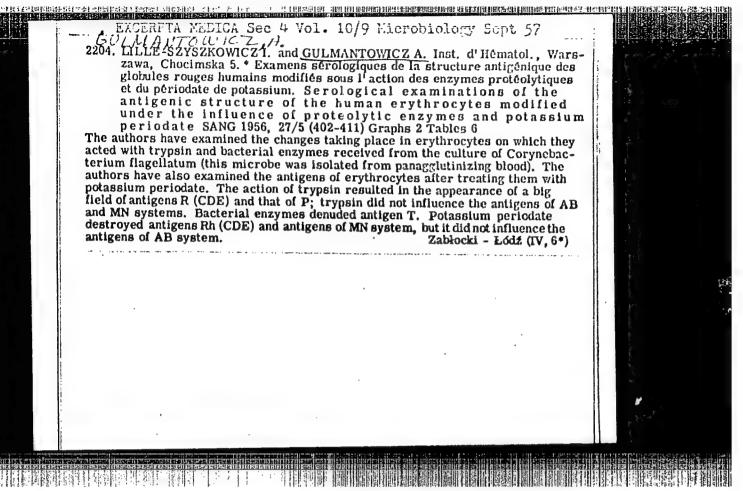
Ref Thur - Biol No 7 1068 20801

LILLE-SZYSZKOWICZ I. GULMANTOWICZ A.

HER HARE

Analysis of studies on Rh factor in pathology of pregnancy. Gin. polska 24 no.4:431-440 Oct-Dec 1953. (CIML 25:5)

1. Of the Serological Laboratory of the Institute of Hematology (Head -- Docent A. Hausman, M.D.), Warsaw.



CHARTCALCA, AND
LILLE-SZYSZKOWICZ, Irena; GUIMANTOWICZ, Ann
Studies on human sera with anti-antibodies. Med. dosw. mikrob. 9 no.3:
309-314 1957.

1. Z Instytutu Hematologii w Warszawie. Ryrektor; Doc. dr A. Trojanowski.
(IMMUNE SERUMS,
human serums with anti-antibodies (Pol))

GULMANTOWICZ, Anna; KALINSKA, Jadwiga

Case of pancytopenia with leukocytic antibodies following blood transfusion. Polskie arch. med. wewn. 27 no.9:1241-1254 1957.

1. Z Działu Serologii: Kierownik: prof. I. Lillie-Gsyskowicz iz z Kliniki Hematologicznej Kierownik: prof. W. Lawkowicz Instytutu Hematologii Dyrektor: doc. A. Trojanowski.

(ANEMIA, APIASTIC, etiology and pathoenesis, blood transfusions, with anti-leukocyte antibodies (Pol)) (BLOOD TRANSFUSION, complications, aplastic anemia with anti-leukocyte antibodies (Pol)) (LEUKOCYTES.

anti-leukocyte antibodies in aplastic anemia caused by blood transfusions (Pol))

GULMANTOWICZ, Anna

Analysis of the results of investigation of 348 cases of leukocytic iso-immunization. Polskie arch. med. wewn. 29 no.3:409-412 1959.

1. Z Działu Serologii Kierownik: prof. dr med. I. Szyszkowicz Instytutu Hematologii Dyrektor: doc. dr med. A. Trojanowski. Adres autora: Warszawa, Instytut Hematologii, ml. Chocimska 5.)

(BLOOD TRANSFUSION, compl.

iso-immun. (Pol))

(LEUKOCYTES,

anti-leukocyte antibodies causing iso-immun. reactions in blood transfusion (Pol))

WALEWSKA, Irena; GULMANTOWICZ, Amna; KACPERSKA, Elzbieta; FRANKOWSKA, Krystyna; CHOJNACKA, Irmina; KALINSKA, Jadwiga; SENDYS, Natalia

Appearance of iso-antibodies against the blood platelets, leukocytes and erythrocytes after blood transfusion. Polski tygod. lek. 16 no.33: 1262-1267 14 Ag \*61.

1. Z Zakladu Serologii; kierownik: dr med. S. Dubiski, z Oddzialu Hematologicznego; kierownik: dr med. S. Pawelski i z Oddzialu Chorob Wewnetrznych Instytutu Hematologii; dyrektor: doc. dr med. A. Trojanowski.

(ANTIBODIES) (BLOOD TRANSFUSION) (BLOOD PLATELETS) (LEUKOCYTES) (ERYTHROCYTES)

LEWINFISZ-WOJNAHOWSKA, T.; ZAORSKA, B.; GULMANTOWICZ, A.; PELCZAHSKA, E.

Immuno-electrophoretic examination of the blood serum and urine from child with nephrosis. Pediat. pol 36 no.11:1129-1138 N ¹61.

1. Z II Kliniki Pediatryzonej Lekarzy AM w Warszawie z Zakladu Pediatrii Studium Doskonalonia Lekarzy AM w Warswawie Kierownik: prof. dr med. T. Lewenfisz-Wojnarowska i z Zakladu Serologii Instytutu Hematologii w Warszawie Kierownik: dr med. S. Dubiski. (NEPHROSIS in inf & child) (ELECTROPHORESIS) (BLOOD PROTEINS) (PROTEINS)

GUL'MEDOV, Kh.

Orionid activity in 1958 according to observations from the astrophysical observatory in Vannovskiy. Izv.AN Turk. SSR no.4-96-98 159. (MIRA 13:8)

Institut fiziki i geofiziki Ali Turkmenskoy SSR (Meteors--October)

- 1. GUL'MEDOV, KH. D.
- 2. SSSR (600)
- 4. Meteors
- 7. Dirunal variation in the color of meteors.
  Astron. teir No. 121, 1951

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

GUL'MEDOV, Kh.D.

Studying a unilateral photo of the meteor of August 12, 1953. Izv.AN Turk. SSR no.5:95-96 '56. (MLRA 9:12)

1. Institut fiziki d geofiziki Akademii nauk Turkmenskoy SSR. (Meteors)

GUL'MEDOV, Kh.D.

Observations of meteor paths in Ashkhabad in 1955-1956, Izv. AN
Turk, SSR mo.1:137 '57.

(NLRA 10:4)

1. Institut fiziki i geofiziki Akadmii nauk Turkmenskoy SSR. (Meteors)

23**0**2 S/165/60/000/002/008/008 A104/A129

3,1550

AUTHOR:

Gul'medov, Kh.

TITLE:

Distribution of true meteor radiants in the ecliptic plane

PERIODICAL:

Akademiya nauk Turkmenskoy SSR. Izvestiya. Seriya fizikotekhnicheskikh, khimicheskikh i geologicheskikh nauk, no. 2,

1960. 127-128

TEXT: Observation results of the course of meteors in relation to the Earth's apex from June 26 to September 4, 1957, are given in Table 1 showing a certain maximum to the antiapex, i.e., shifts from this to the antisolar point. The question whether the distribution varies according to the radiance of meteors was brought up and the results of observations of radiant and less radiant meteors are shown in Table 2. Meteors of lower radiance revealed a more even distribution which is closer to the distribution of telescopic meteors. Distribution in relation to the apex for several classes of varying angular velocity are given in Table 3. The curve designating fast meteors is characterized by a sharp maximum, a feature also observed in telescopic meteors. Obtained data on the distribution of

Card 1/6

Distribution of true meteor radiants ...

S/165/60/000/002/008/008 A104/A129

visible meteor courses permit a rough estimate on the distribution of true meteor radiants in the ecliptic plane. Prior to the transition from the distribution of visible radiants to the distribution of true meteor radiants a number of corrections should be taken into consideration, i.e., sweeping of meteors by the Earth; gravity, redistribution of radiants due to aberration and the dependence of the radiance on geocentric velocity. Numerical values of coefficients calculated by B.Yu. Levin with regard to two velocity values  $V_h = \sqrt{2 \, v_0}$  where  $V_0 = \text{velocity}$  of the Earth and  $V_h = \sqrt{1.5 \, v_0}$ . The distribution of true radiants taking in the consideration these corrections is shown in Table 4 and reveals a great majority of overtaking meteors. Comparison with data on telemeteors provided by K.A. Lyubarskiy and I.N. Latyshev indicate a considerable concentration of radiants of visible meteors to the antiapex. There are 4 tables and 1 Soviet-bloc reference.

ASSOCIATION:

Fiziko-tekhnicheskiy institut AN Turkmenskoy SSR (Physical and Technical Institute of the AS of the Turkmenskaya SSR)

SUBMITTED:

January 5, 1960

Card 2/6

8/165/60/000/003/009/009 A104/A129

3,1550

Gul medov, Kh.

TITLE:

AUTHOR:

The luminosity function of visible meteors

PERIODICAL: Akademiya Nauk Turkmenskoy SSR. Izvestiya. Seriya fiziko-tekhnicheskikh, khimicheskikh i geologicheskikh nauk, no. 3, 1960, 123 - 125

The article describes visual observations of meteors carried out by the author, V. Rodionov, V. Nardin and R. Khotinok at the Astrofizicheskaya obser-TEXT: vatoriya Fiziko-tekhnicheskogo instituta Akademii nauk Turkmenskoy SSR (Astrophysical Observatory of the Physico-Technical Institute of the Academy of Sciences of Turkmenskaya SSR) since June 27, 1957, to mark the beginning of the World Geophysical Year. The luminosity function of meteors derived by the processing of available observation data is given. It is noted that the attention factor varies slightly from observer to observer. K. A. Lyubarskiy [Ref. 1: Funktsiya svetimosti meteorov potokov i sporadicheskogo materiala (Luminosity Function of Shower Meteors and Sporadic Material) Trudy Instituta fiziki i geofiziki AN TSSR, v. 5, 1958] states that the luminosity function of meteors is influenced by two frequently ignored factors, i.e., the angular length of meteors and the discrepancy effect

Card 1/3

- In the state of the state of

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The luminosity function of visible meteors

S/165/60/000/003/009/009 A104/A129

in the evaluation of the stellar magnitude of joint meteors by both observers. As the effective visibility area is conditioned by the angular length of meteors which varies according to brightness, the effective area of each stellar magnitude (Table 1) was calculated according to

$$S_{eff} = S_{geom} + 1 D$$

where  $S_{geom} = \frac{\pi D_2}{4}$ ; D is the circle diameter; 1 is the angular length in degrees. The second factor cannot be predetermined and may, therefore, distort the general picture. Of particular interest are the luminosity functions of meteors of different angular velocity, where N is the probable number of meteors calculated according to Epik's formula. The results given by the author contradict the results obtained by K. A. Lyubarskiy based on visital observations by I. S. Astapovich (Ref. 1) and telescopic observations carried out by K. A. Lyubarskiy and I. N. Latyshev during the Geophysical Year. The discrepancy is probably due to the fact that the results were obtained during the summer period, whereas I. S. Astapovich carried out his observations in January - March. As to the divergence in telescopic observations, this might be attributed to the diversity of observation objects. Supplementary observations on all contradictory points are recommended. There are

Card 2/3

24903

The luminosity function of visible meteors

S/165/60/000/003/009/009 A104/A129

5 tables and 1 Soviet-bloc reference.

ASSOCIATION: Fiziko-teknnicheskiy institut AN Turkmenskoy SSR (Physico-Technical

Institute of the AS Turkmenskaya SSR)

SUEMITTED: November 5, 1959

Card 3/3

s/035/61/000/010/032/034 A001/A101

3.2440 (1041)

BETFER FROM THE STEEL STATES THE PROPERTY OF THE STATES OF

Gul'medov, Kh.D., Lyubarskiy, K.A., Latyshev, I.N. AUTHORS:

Relationship between altitudes of meteors and solar activity TITLE:

Referativnyy zhurnal. Astronomiya i Geodeziya, no. 10, 1961, 69, ab-PERIODICAL: stract 10A491 ("Izv. AN TurkmSSR, Ser. fiz. tekhn. khim. i geol. n.", 1960, no. 6, 141)

The authors make an attempt to discover a relation between the altitude H of meteors and solar activity (Wolf number). It was found from photographic observations at Ashkhabad that on the average;

 $\omega < 100 \text{ H}_1 = 59 \text{ km} + 0.82 \text{ V g km} (n = 10)$ 

 $\omega > 150 \text{ H}_1 = 57 \text{ km} + 0.77 \text{ V g km} (n = 14).$   $\omega > 150 \text{ H}_2 = 63 \text{ km} + 0.44 \text{ V g km} (n = 10)$   $\omega > 150 \text{ H}_2 = 60 \text{ km} + 0.36 \text{ V g km} (n = 14)$ where H<sub>1</sub> and H<sub>2</sub> are altitudes of flash and extinction respectively. It is obtained that altitudes of meteors decrease with the rise of solar activity. Protained

Card 1/2

Relationship between altitudes ...

S/035/61/000/010/032/034 A001/A101

30278

cessing of observations of telescopic meteors leads to the same conclusion.

R. Khotinok

[Abstracter's note: Complete translation]

Card 2/2

GUL'MEDOV, Kh.

Meteorite tracks during 1958-1960 from observations at the astrophysical observatory in Vannovskoie. Izv. AN Turk. SSR. Ser. fiz.-tekh., khim. i geol. nauk no.4:130-131 '61. (MIRA 14:12)

1. Fiziko-tekhnichenkiy institut AN Turkmenskoy SSR. (Turkmenistan—Meteorites)

RELOUS, A.T.; GUL'MEDOV, Kh.D.; INOZEMTSEV, Yu.A.; LYUBARSKIY, K.A.;
KALYAKINA, M.I.; SADYKOV, Ya.F.

Meteor observations in Ashkhabad. Issl.ionosf.i met. no.8:64-68
'62. (MIRA 15:4)

(Ashkhabad—Ionospheric research) (Meteors)

3:1220 3:1200 3:1710 43288

S/U31/62/000/008/009/016 E032/E514

AUTHORS:

Belous, A.T., Gul'medov, Kh.D., Inozemtsev, Yu.A., Lyubarskiy, K.A., Kalyakina, M.I. and Sadykov, Ya.F.

TITLE:

Meteor observations at Ashkhabade

SOURCE:

Ionosfernyye issledovaniya (meteory). Sbornik statey, no.8. V razdel programmy MGG (ionosfera). Mezhduved. geofiz. kom. AN SSSR. Moscow, Izd-vo AN SSSR, 1962, 64-68

TEXT: The Astrofizicheskaya laboratoriya IFG AN Turkmenskoy SSR (Astrophysics Laboratory IFG AS Turk.SSR) has carried out systematic studies of meteors during the IGY with a view to obtaining observational material under the following three main headings: 1) meteor activity as an ionizing factor in the atmosphere; 2) determination of the density and height of the homogeneous atmosphere; 3) determination of wind distribution in the upper atmosphere from observations of meteor-trail drift. The observations were carried out visually (with and without telescopes), photographically and by radar. In addition, there were spectral observations of meteors and telescopic observations Card 1/3

Meteor observations at Ashkhabade

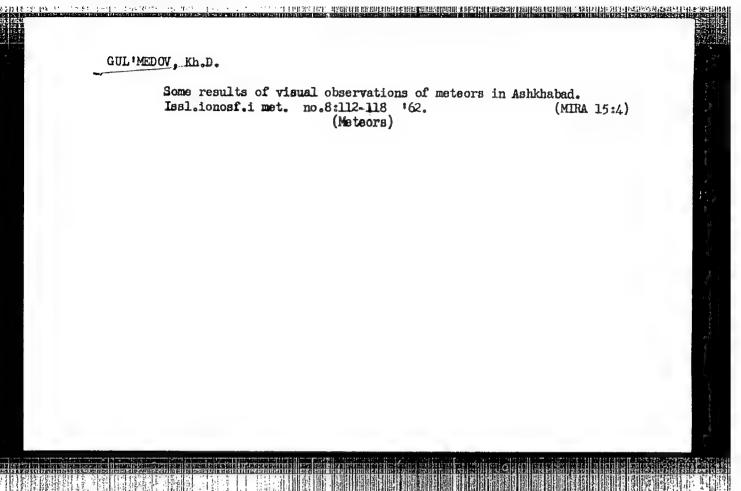
s/831/62/000/008/009/016 E032/E51/4

of meteor trails. The results of these observations will be published later. The present paper gives a summary of the experimental methods. All the observations were carried out in accordance with the IGY programme and instructions. The visual observations without instruments were carried out by two people who observed the sky through an aperture 2 m in diameter placed at a height 2 m above the earth's surface and parallel to it. Each observer was placed horizontally along the meridian, his head pointing north and his eye located at the centre of the aperture. Altogether 5016 meteors were observed over a period of 600 hours. The telescopic visual observations were carried out with two identical binoculars separated by 0.505 km with a magnification of X12 and a field diameter of 3.3°. The limiting stellar magnitude was 10. Altogether 650 meteors were recorded in approximately 450 hours and 176 parallaxes were obtained for The radar observations were carried out with standard radar apparatus giving 80 kW/pulse at a repetition frequency of 50 cps and a carrier frequency of 72 Mc/sec. The mean point of the seven-element antenna was 22° above the horizon, facing Altogener during the 16 months of the IGY, 6216 radio Card 2/3

\$/831/62/000/008/009/016 E032/E514

meteors were recorded (4070 hours). The photographic observations were carried out at two points separated by 20.77 km. One of the points had a set of four Xenon cameras (F = 12.5 cm, D:F = 1:2, The other point had four HAAA-3c/25 (NAFA-3s/25) cameras with 90H-0 (Uran-9) objectives (F = 25 cm, D:F = 1:25, frame size  $18 \times 24$ ). In each case the cameras covered an area of about 7000 sq.deg around the zenith. two sets were at 10° to each other, which corresponded to meteor The axes of the heights of 80-100 km. One of the photographic stations included a rotating shutter which facilitated meteor trail measurements. Altogether 100 meteor photographs were obtained (18 parallaxes). The spectral observations were begun in May, 1958 (ordinary flint prisms, dispersion 575 A/mm). The total number of spectra which were obtained was eight; they contained a large number of lines. Finally, the meteor trails were investigated using a Hertz 8 x 30 binocular with a 6° field of view. Twenty persistent trails were recorded during the IGY period, of which three were also recorded at the two photographic points.

Card 3/3



S/831/62/000/008/016/016 E032/E114

AUTHOR:

Gul'medov, Kh.D.

TITLE:

Some results of visual observations of meteors at

Ashkhabad

SOURCE:

Ionosfernyye issledovaniya (meteory). Sbornik statey no.8. V razdel programmy MGG (ionosfera). Mezhduved. geofiz. kom. AN SSSR. Moscow, Izd-vo AN SSSR, 1962.

112-118

TEXT: The Astrofizicheskaya laboratoriya (Astrophysical Laboratory) of the Institut fiziki i geofiziki AN Turkm. SSR (Institute of Physics and Geophysics, AS Turkm. SSR) carried a continuous sequence of visual meteor observations during the IGY. The method employed is described elsewhere (present collection of articles, pp 64-68). The present paper reports preliminary analysis of observations during June 1957 to September 1958. Tables are reported giving the mean hourly numbers of meteors observed by two observers throughout this period. A further table gives the distribution of the directions of motions of meteors obtained by Card 1/2

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Some results of visual observations... \$\831/62/000/008/016/016 \\ E032/E114

the author during six months in 1957. This table shows that the motion of the meteors was predominantly in the East-West direction. However, the distribution is affected by major showers and the position of the apex. Finally, a table is given showing the variation in the relative heights for July-December 1957. The relative height was higher in the summer than in the winter and exhibits an increase in November. The reason for this is said to be obscure.

There are 5 tables.

Card 2/2

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S/035/62/000/010/057/12& A001/A101

AUTHORS:

Belous, A. T., Gul medov, Kh. D., Inozemtsev, Yu. A.,

Lyubarskiy, K. A., Kalyakina, M. I., Sadykov, Ya. F.

TITLE:

Meteor observations at Ashkhabad

PERIODICAL:

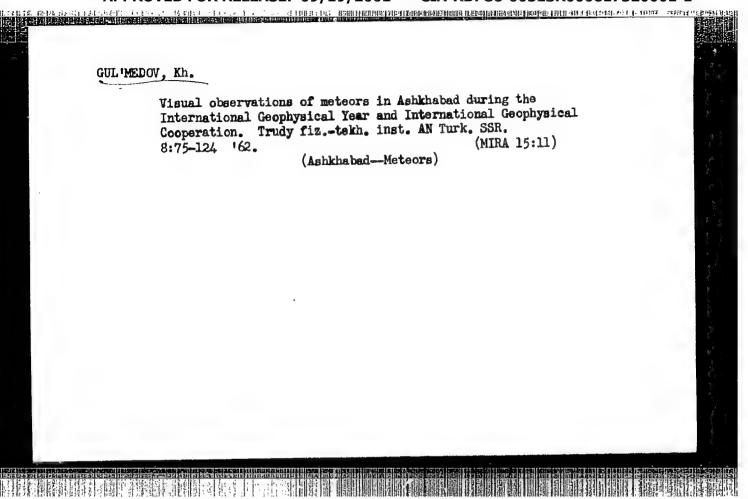
Referativnyy zhurnal, Astronomiya i Geodeziya, no. 10, 1962, 65, abstract 10A461 (In collection: "Ionosfern. issled. (meteory),

no. 8", M., AN SSSR, 1962, 64 - 68; English summary)

TEXT: During IGY meteor observations were conducted according to an extensive program. Two observers recorded visually 5,016 meteors. Double photographic observations of telescopic meteors yielded 176 pairs during 450 hours. Radar observations were conducted by means of a standard installation; 6,216 radio-echoes were recorded in 15 months. Base stations located at Ashkhabad and Vannovskiy took 100 photographs of meteors and 8 spectra. Drift of 20 stable trails was observed.

Authors' summary

[Abstracter's note: Complete translation] Card 1/1



5/035/62/000/010/064/128 A001/A101

AUTHOR:

Gul'medov, Kh. D.

TTTLE:

Some results of visual observations of meteors at Ashkhabad

PERIODICAL:

Referativnyy zhurnal, Astronomiya i Geodeziya, no. 10, 1962, 66, abstract 10A468 (In collection: "Ionosfern. issled. (meteory), no. 8", M., AN SSSR, 1962, 112 - 118, English summary)

Qualified counting of meteors was carried out by two observers at TEXT: the astrophysical laboratory of the Institute of Physics and Geophysics, AS Turkm. SSR, during the whole period of IGY. The number of meteors was calculated by Opik's formula. The tables presented contain data on direction distribution of meteors and relative variations of altitudes.

Author's summary

[Abstracter's note: Complete translation]

Card 1/1

GUL'MEDOV, Kh.D.

Photographing meteor tracks. Biul.VAGO no.32:13-14 '62.

(MIRA 15:11)

1. Astronomicheskaya observatoriya imeni V.P.Engel'gardta.

(Meteors) (Astronomical photography)

GUL'MEDOV, Kh.

Observations of Orionids in Kazan in 1961. Astron.tsir. no.227:24-26 F '62. (MIRA 16:1)

 Astronomicheskaya observatoriya im. Engeligardta. (Meteors—October)

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ACCESSION NR: AR5001323

\$/0269/64/000/010/0076/0077

SOURCE: Ref. zh. Astronomiya. Otdel'nyy vypusk, Abs. 10.51.511

AUTHOR: Gul'medov, Kh. D.

TITLE: . Air flow in the upper atmosphere over southern Turkmeniya firom observations of meteor trails

Sh. Meteorn, rasprostr, radiovoln, no. 1. Kazani, Kamansk, un-t. CITED SOURCE: 1963, 206-217

TOPIC TAGS: upper atmosphere, meteor trail, meteor trail drift, solar activity, air current

TRANSLATION: This paper presents the results of determinations of the velocity and direction of the drift of meteor trails and the diurnal and annual variations of these values on the basis of more than 100 visual observations made at Ashkhabad in 1955-1960. An attempt has been made to study the change in drift velocity with height. The author has demonstrated the dependence of drift velocity on solar activity. Bibliography of 12 items. P. B.

Card CODE: AA, ES

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EWT(1)/EWG(v)/EEC-4/EEC(t)/EWA(h)/FCC/EWA(d) L 23293-65 Pt-10/Pae-2/Peb GW ACCESSION NR: AR5001324

8/0269/64/000/010/0077/0077

SOURCE: Ref. zh. Astronomiya. Otdel'nyy vypusk, Abs. 10.51.512

AUTHOR: Gullmedov, Kh. D.

TITLE: Drift of luminescent meteor trails determined from photographic observations at the Astronomicheskaya Observatoriya imeni Engel gardta (Engel gardt Observatory) in 1961

CITED SOURCE: Sb. Meteorn. rasprostr. radiovoin, no. 1. Kazan', Kazansk. unit.

TOPIC TAGS: meteor trail, upper atmosphere, meteor camera, meteor stream, mateor shower, Orionids meteor shower

TRANSLATION: This paper gives the results of photographic observations of meteor traits of the Orionids meteor shower made during the period 13-21 October 1961 at Kazan'. The photographs were taken with a "Zorkiv-35" camera and a "Yupicer-8" objective. A total of 4 trails were photographed; 7-8 successive photographs were obtained for two of them. Information on the change in position of these two trails in the sky has been presented in the form of graphs and tables. P. B.

Card 1/1

SUB CODE: AA, ES

20 May

UPPER ATMOSPHERIC TURBULENCE ACCORDING TO METEOR TRAIL OPTICAL OBSERVATIONS AT ASHKHABAD AND KAZAN' (USSR)

Geomagnetizm i aeronomiya, v. 3, no. 2, 1963, 309-313. S/203/63/003/002/015/027 Gul'medov, Kh.

The results of telescopic and photographic observations of meteor trails carried out at Ashkhabad (1955) and Kazan' (1961) for the purpose of obtaining parameters of turbulence in the meteor zone are given. Altitude variation of wind velocities and directions was determined. A change in trail drift direction with altitude appeared in the form of a spiral similar to the Eckman spiral in lower atmospheric layers. Condensation formations were noticeable in all the trail photographs. From the drift of a condensation it was found that horizontal circulation of the condensation was along a curve 10 km in radius rotating at a velocity of 59 m/sec. The determination of turbulence parameters showed that the Reynolds numbers most frequently encountered were of the order of 10°. A tendency of the drift velocity gradient to increase at Card 1/2

WIPPER ATMOSPHERIC TURBULENCE [Cont'd]

s/203/63/003/002/015/027

the ends of trails was detected. Its average value was 50 m/sec.km<sup>-1</sup>.

The turbulence height was found to be 6.3 km. An attempt was made to compare the data of a turbulence-spectrum study with the theoretical excompare the distribution of the wind energy with altitude Z deduced by pression for the distribution of the wind energy with altitude Z deduced by A. N. Kolmogorov. It was found experimentally that the exponent of Z was [KM]

1.8, not 2/3 as given by Kolmogorov.

[KM]

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AUTHOR: Gul'medov, Kh.  TITLE: Some data on the turbulence of the upper atmosphere according  TITLE: Some data on the turbulence of the upper atmosphere according
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ABSTRACT: Systematic optical (telescopic and photographic) did the ABSTRACT: Systematic optical (telescopic and photographic) did the tions of seven out of several tens of meteor trails observed in the tions of seven out of several tens of meteor showers were carried out to investigate the tions of seven out of several perseid and Orion meteor showers were carried out to investigate the perseid and Orion meteor showers were at altitudes of 70—110 km perseid and orion meteor showers were at altitudes of 70—110 km perseid and turbulence of the atmosphere at altitudes of 70—110 km perseid and turbulence of the atmosphere at altitudes of 70—110 km perseid and orion meteor showers were carried out to investigate the
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ACCESSION NR: AP4046297

AUTHOR: Gul'medov, Kh., Yushkevich, E.S. TITLE: Structure and diffusion of meteor trails from photographic observations

SOURCE: Geomagnetizm i aeronomiya, v. 4, no. 5, 1964, 965-968

TOPIC TAGS: meteor, meteor trail, meteor trail diffusion, atmospheric turbulence,

ABSTRACT: This paper presents the results of photometric measurements of the blackmeteor trail structure ening density of successive photographs of stable meteor trails, observed on 21 October 1961 Astronomicheskaya observatoriya im. V.P. Engelgardta (V.P. Engelgardt Astronomical Observatory) at Kazan'. Two trails were investigated. Partial results were previously published by the author (Geomagnetizm i aeronomiya, 1963, 3, No. 2, 309; Byull. VAGO, 1962, No. 32(39)). The photographs were taken with a camera with a "Yupiter-8" objective (f = 1:2, F = 50 mm). Seven or eight successive hegatives were obtained for each trail. Measurements of the blackening density of the image of the trails were made using a MF-4 microphotometer with a magnification of 20. Information is given on the linear dimensions of the trails. It was found that the structure of the

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trail in the second exposure was patchy, consisting of individual condensations. The largest condensations were formed at the beginning and end of the trail. The structure of the trail changed by the third exposure: the condensations in the middle part of the trail merged, only the large condensations at the beginning and end of the trail remaining. There was also a shifting of isophots from exposure to exposure. Figures 1 and 2 of the Enclosure show that with increasing height there is a change in both velocity and the coefficient of diffusion of the trails. These values correlate well with the variation in velocity of drift of the trails. There is an interrelationship between the structure of the trails and their rates of diffusion and drift; this can be attributed to the influence of atmospheric turbulence on the formation and development of trails. It is also shown that attenuation of the trail occurs not only as a result of diffusion, but also due to other phenomena which considerably accelerate this process. Brightness of the trail is also variable with height, as shown by Fig. 3 of the Enclosure. Orig. art. has: 3 formulas, 4 figures and 1 table.

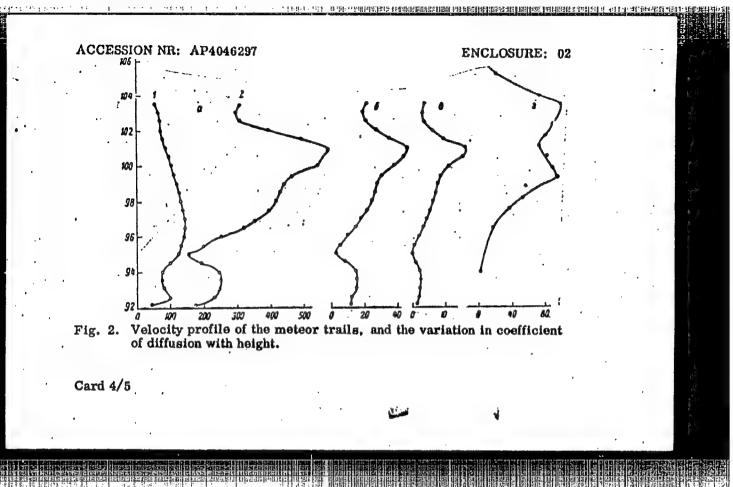
ASSOCIATION: Otdel geofiziki i seysmologii, AN Turkmenskoy SSR (Division of Geophysics and Seismology, Academy of Sciences of the Turkmen SSR)

SUB CODE: AA ENCL: 03

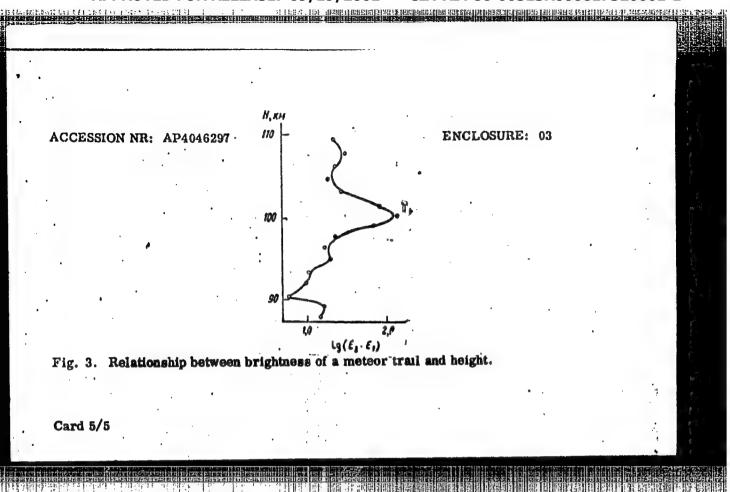
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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000617320001-1"

AUTHORS:

Gul'medova, A., Kullyev, S., Khandovletov, S.

TITLE

An experience of photographic photometry of meteors by trying to

diurnal trails of stars

PERIODICAL:

Referativnyy zhurnal. Astronomiya i Geodeziya, no. 12, 1961, 76, abstract 12A626 ("Izv. AN TurkmSSR, Ser. fiz. tekhn., khim. i geil

n,", 1961, no 2, 128-129)

TEXT: The authors describe the results of photographic photometry of 9 meteors whose photographs were taken at the Astrophysical Laboratory of the Physical Engineering Institute, AS TurkmSSR. Their processing was carried out by tying to diurnal trails of B5-F5 stars located near the meteors. Errors of camera field, angular velocity of meteors and the law of reciprocal substitution were taken into account. Maximum visible stellar magnitudes of meteors subjected to photometry are tabulated; light curves of 8 of them are presented graphicall; Corrections for non-fulfilment of the law of reciprocal substitution are not taken into account.

[Abstracter's note, Complete translation]

P Babadzhanov

Card 1/1

GULIMEDOVA, A.A.; STEPANOV, V.B.

Results of photographic observations of the Perseid meteor stream in Ashkhabad, August 1961. Izv. AN Turk. SSR. Ser. fiz.-tekh., khim. i geol. nauk no.6:122 lol. (MIRA 15:3)

i. Fiziko tekhnisheskiy institut AN Turkmerskoy SSR. (Meteors)

GUL'MEDOVA, A.A.; SIMONIMIKO, A.N.; YUSHKEVICH, E.S.

Results of photographic observations of meteors. Izv. AN Turk. SSR. Ser. fiz.-tekh., khim. i geol.nauk 10.3:131 '64 (MIRA 18:1)

1. Otdel gofiziki i seysmologii AN Turkmenskoy SSR, Astrofizi-cheskaya Laboratoriya.

## GUL'MIRZAYEVA, I.K., aspirant

Influence of gauma radiation on the antitoxin and the ballast proteins of antidiphtheria serum. Med.zhur.Uzb. no.12:71-74 D '58. (MIRA 13:7)

1. Iz kafedry biokhimii (zav. - prof. A.S. Volynskiy) Tashkentskogo gosudarstvennogo meditsinskogo instituta. (DIPHTHERIA ANTITOXIN) (GAMMA RAYS--PHYSIOLOGICAL EFFECT)

FAZYLOV, I.F.; KHADZHIYEV, K.Kh.; GUL'MIRZAYEVA, I.K.

Study of blood protein in children with chronic Tysentery. Izv. AN Uz. SSR. Ser. med. no.4:53-58 159. (MIRA 12:12)

1. Tashkenstkiy gosudarstvennyy meditsinskiy institut, kafedra detskikh bolezney lechebnogo fakul'teta i kafedra biokhimii.

(BLOOD PROTEINS) (DYSENTERY)

GUL MIRZAYEVA, I.K., aspirant

Indices of the variability of serum proteins under the action of ionizing radiation. Med. zhur. Uzb. no.3:30-35 Mr '60. (MIdA 15:2)

1. Iz kafedry biokhimii (zav. - prof. A.S. Volynskiy) Tashkontskogo gosudarstvennogo meditsinskogo instituta.
(BLOOD PROTEINS) (RADIATION\_PHYSIOLOGICAL EFFECT)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000617320001-1"

## GULMIRZAYEVA, I. K. (USSR)

"The Effect of Ionizing Radiation on the Protein Fractions of the Serum."

Report presented at the 5th International Biochemistry Congress, Moscow, 10-16 Aug 1961

VOLYMIN'T, A.S., prof.; GUL'MIRZAYEVA, I.K.

Detailed elaboration of isotopic indication of proteins. Sbor, nauchatrud. TashGMI 22:310-318 '62. (MIRA 18:10)

l. Kafedra biokhimii (zav. kafedroy - prof. A.S. Volunskiy) Tash-kentskogo gosudarstvennogo meditsinskogo instituta.

ALTAYET.Sh. of MIKUSHEV, M.M.; SULETEV, E.A.; POTIEGE, V.Ya.; GULTNEV, G.L.

Uning plass reinforced plastic in Karaganda Beain mines. Nauch.
trudy KNTUI no.14:162-164. 164. (MIRA 13:4)

S/0269/64/000/001/0071/0072

ACCESSION NR: ARLIO11624

SOURCE: RZh. Astronomiya, Abs. 1.51.476

AUTHOR: Gul'nitskiy, L. V.; Gul'nitskaya, T. V.

TITLE: Determination of the solar constant

CITED SOURCE: Sb. nauchn. tr. Kazakhsk. politekhn. in-t, no. 21, 1960, 21-33

TOPIC TAGS: solar constant, meteorological solar constant, solar radiation, atmospheric transparency, transparency coefficient, atmospheric transparency coefficient, atmospheric mass, actinometry, actinometric observation

TRANSLATION: The meteorological solar constant is determined, that is, the quantity of solar radiation incident in 1 minute on 1 cm2 on the boundary of the earth's atmosphere in that spectral range which reaches the earth's surface. The value of the meteorological solar constant determined by J. Georgi (Ann. Meteorol., 5, No. 3-5, 1952), equal to 1.80 cal/am²min, is considered inadequately precise. The principal difficulty involved in determining the solar constant is

Card 1/3

AR4014624 ACCESSION NR:

making an allowance for the total effect of the coefficient of transparency of the earth's atmosphere; this problem has been investigated by the authors. The total effect of the transparency coefficient characterizes the dependence of the transparency coefficient on atmospheric mass. Denoting the intensity of the direct solar radiation incident on a plane perpendicular to the rays in the case of atmospheric masses of 1, m and m + 1 by S<sub>1</sub>, S<sub>m</sub> and S<sub>mil</sub>, the meteorological solar constant by S<sub>0</sub>, and the parameters characterizing the total effect of the transparency coefficient by k and q, the authors obtain the relation

$$\frac{\lg S_m - \lg S_{m+1}}{\lg S_0 - \lg S_1} - 1 - kq^m \lg (m+1).$$

The applicability of this equation for atmospheric masses from 0 to 10 has been checked by the authors on the basis of two series of actinometric observations. Transforming the derived formula, the authors obtain an expression for determination of the meteorological solar constant in the form

$$\lg S_0 = \frac{C_m \lg S_n - C_n \lg S_m}{C_m - C_n}$$

ACCESSION NR: ARHOL4624

where m and n are atmospheric masses and the coefficients  $C_m$  and  $C_n$  are expressed through m, n and through the values k and q. Formulas are derived for determination of these parameters. Applying the described method to a series of determinations of the solar constant made by V. O. Fesenkov (Izv. AN SSSR, 1931, ser. VII, No. 6), the authors obtain values agreeing well with the generally accepted values for the ordinary solar constant. On this basis the developed methods also were used for determination of the meteorological solar constant using observations made near Alma-Ata. The desired value was found to be 1.918 cal/cm²min, appreciably exceeding the result obtained by Georgi. Bibliography of  $2l_1$  items. B. Rubashev.

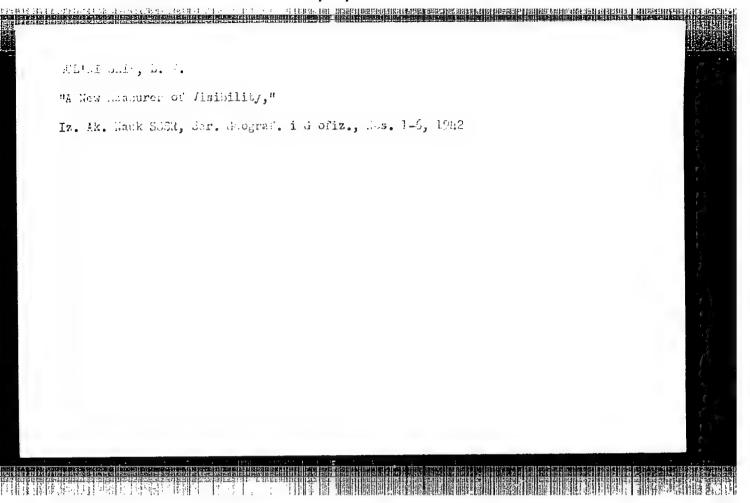
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#### CIA-RDP86-00513R000617320001-1 "APPROVED FOR RELEASE: 09/19/2001

EWT(1) 46008-66 SOURCE CODE: UR/0169/66/000/005/B020/B020 AR6029446 AUTHOR: Gul'nitskiy, L. V.; Perevertun, A. I. TITLE: Development of absolute methods of measuring radiation intensity am SOURCE: Ref. zh. Geofizika, Abs. 5B136 REF SOURCE: Tr. Kazakhsk. politekhn. in-ta, sb. 25, 1965, 23-44 TOPIC TAGS: actinometric measurement, radiation, radiation measurement, actinometer receiver, actinometer design ABSTRACT: The theoretical principles underlying absolute radiation measurement methods developed by the Alma-Ata actinometric group are discussed. A differential equation for the heat process in an irradiated actinometric receiver, and its solution by the author, are given. Methods of measuring radiation when the receiver is a) stationary, and b) nonstationary are discussed. These methods are: a) the compensation heating method, the compensation method, the dual stationary and stationary-pulsed heating method, the differential heating method; b) the dual nonstationary heating method, the nonstationary-pulsed heating method, the pulsed-UDC: 551.508.2 Card 1/2

L 46003-66 ACC NR: AR6029446 compensation heating method, and the dual pulsed heating method. Mixed methods of radiation measurement under stationary and nonstationary conditions are also discussed. These are the pulsed compensation and pulsed-compensation heating

methods. The edge effect is taken into account. Specific actinometric designs based on the above mentioned methods are enumerated. Bibliography of 8 titles. V. Goli-[SP]

kov. [Translation of abstract]

SUB CODE: 04/

Card 2/2/11/1

Doc Physicomath Sci

GUL'NITSKIY, L. V.

Dissertation: "Rational Methods for Determining the Elements of Radiation Exchange in Atmosphere."
1/3/50

Geophysical Inst. Acad Sci USSR

- 1. GULTHITHIP, L. V.
- 2. USUR (600)

"The Universal Visibility Gage,"

<u>Isyestiya AN Kaakhskoy SSR</u>. No. 54, Astronomical and Physical Series, Issue 3, 1943 (70-36)

9. METEOROLOGIYA i Gidrologiya, No. 3, 1949.
Report U-2551. 30 Oct 52.

S/0269/64/000/001/0071/0072

ACCESSION NR: AR4014624

SOURCE: RZh. Astronomiya, Abs. 1.51.476

AUTHOR: Gul'nitskiy, L. V.; Gul'nitskaya, T. V.

TITLE: Determination of the solar constant

CITED SOURCE: Sb. nauchn. tr. Kazakhsk. politekhn. in-t, no. 21, 1960, 21-33

TOPIC TAGS: solar constant, meteorological solar constant, solar radiation, atmospheric transparency, transparency coefficient, atmospheric transparency coefficient, atmospheric mass, actinometry, actinometric observation

TRANSLATION: The meteorological solar constant is determined, that is, the quantity of solar radiation incident in 1 minute on 1 cm<sup>2</sup> on the boundary of the earth's atmosphere in that spectral range which reaches the earth's surface. The value of the meteorological solar constant determined by J. Georgi (Ann. Meteorol., 5, No. 3-5, 1952), equal to 1.80 cal/cm<sup>2</sup>min, is considered inadequately precise. The principal difficulty involved in determining the solar constant is

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ACCESSION NR: ARLIOILI624

making an allowance for the total effect of the coefficient of transparency of the earth's atmosphere; this problem has been investigated by the authors. The total effect of the transparency coefficient characterizes the dependence of the transparency coefficient on atmospheric mass. Denoting the intensity of the direct solar radiation incident on a plane perpendicular to the rays in the case of atmospheric masses of 1, m and m + 1 by  $S_1$ ,  $S_m$  and  $S_{m+1}$ , the meteorological solar constant by  $S_0$ , and the parameters characterizing the total effect of the transparency coefficient by k and q, the authors obtain the relation

$$\frac{\lg S_m - \lg S_{m+1}}{\lg S_0 - \lg S_1} - 1 - kq^m \lg (m+1).$$

The applicability of this equation for atmospheric masses from 0 to 10 has been checked by the authors on the basis of two series of actinometric observations. Transforming the derived formula, the authors obtain an expression for determination of the meteorological solar constant in the form

$$\lg S_0 = \frac{C_m \lg S_n - C_n \lg S_m}{C_m - C_n}$$

card 2/3

ACCESSION NR: ARLIO14624

where m and n are atmospheric masses and the coefficients  $C_m$  and  $C_n$  are expressed through m, n and through the values k and q. Formulas are derived for determination of these parameters. Applying the described method to a series of determinations of the solar constant made by V. Q. Fesenkov (Izv. AN SSSR, 1931, ser. VII, No. 6), the authors obtain values agreeing well with the generally accepted values for the ordinary solar constant. On this basis the developed methods also were used for determination of the meteorological solar constant using observations made near Alma-Ata. The desired value was found to be 1.918 cal/cm²min, appreciably exceeding the result obtained by Georgi. Bibliography of 24 items.

DATE ACQ: 19Feb64

SUB CODE: AS

ENCL: 00

Card 3/3

L 19285-63 EWT(1)/BDS/ES(v) AFFTC/ASD/ESD-3/APGC/SSD Pe-L/Pi-L GW ACCESSION NR: AR3006550 S/0169/63/000/008/B027/B027

SOURCE: R2h. Geofizika, Abs. 8B175

HERE YOURS ARE AREA TO BE A SUST.

AUTHOR: Gul'nitskiy, L. V.

TITLE: Problem of perfecting methods of determining the range of visibility \"

CITED SOURCE: Sb. nauchn. tr. Kazakhsk. politekhn. in-t, no. 21, 1960, 91-94

TOPIC TAGS: visibility, visual range, haze meter, visibility meter, Lummer-Brodhun cube, telephotometer

TRANSLATION: L. V. Gul'nitskiy's and V. K. Anisimov's improved model of a visibility range meter is described. The instrument consists of two identical 8-power telescopes rotating independently of each other through 360°. Both images can be examined through one ocular as the light rays from both telescopes are passed onto the separating surfaces of a Lummer-Brodhun cube. The instrument's photometric system consists of a photometric wedge which makes it possible to change the brightness of the field of one telescope, and a unit creating a masking "haze" in the instrument which is superimposed on both of the images

Card 1/2

L 19285-63 ACCESSION NR: AR3006550

being examined. The masking brightness is produced with either an incandescent lamp or with a milky glass as in V. V. Sharonov's haze meter. The brightness of the haze is changed by means of varying an iris diaphragm. The instrument's optical and photometric system makes it possible to use the latter as a visibility meter and as a telephotometer. Because of this, the instrument can be used in various modifications. V. Gavrilov.

DATE ACQ: 06Sep63

SUB CODE: "SD

ENCL: 00

Card 2/2

L 19291-63 EWT(1)/BDS/ES(V) ASD/AFFTC/ESD-3/APGC/SSD Pe-4 GW

ACCESSION NR: AR3006552 8/0169/63/000/008/B027/B027

SOURCE: RZh. Geofizika, Abs. 8B177

AUTHOR: Gul'nitskiy, L. V.

TITLE: Determination of the range of visibility according to the intensity of

direct solar radiation

CITED SOURCE: Sb. nauchn. tr. Kazakhsk. politekhn. in-t, no. 21, 1960, 110-121

TOPIC TAGS: direct solar radiation, visibility, atmosphere, atmospheric transparency, vertical atmospheric transparency, transparency coefficient, Kastrov-Savinov correlation, horizontal atmospheric transparency

TRANSLATION: An attempt made at measuring the horizontal and vertical transparency of the atmosphere according to measured values of the intensity of direct solar radiation, is reported. On the basis of a number of simplified assumptions the author obtains an expression connecting the meteorological visibility range near the earth with vertical transparency through the entire thickness of the atmosphere. The transparency coefficient Pa for the earth surface

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त्राप्त कर्मा विकास कर्मा विकास कर्मा विकास कर्मा विकास स्थान विकास कर्मा विकास कर्मा विकास कर्मा विकास कर्मा व विकास कर्मा विकास कर्मा विकास कर्मा विकास कर्मा विकास सम्बद्धित कर्मा विकास कर्मा विकास कर्मा विकास कर्मा विकास

L 19291-63 ACCESSION NR: AR3006552

layer, which must be determined according to the measurement of the intensity of direct solar radiation, enters into the obtained expression. The coefficient P must be determined at different altitudes and introduced in the obtained expression according to the well known Kastrov-Savinov correlation. Measurements of the intensity of direct solar radiation from a balloon or from an airplane are necessary for determining the variation of Pa with altitude. The author substitutes actinometric data obtained at different altitudes in mountains for balloon and airplane data. Over 8,000 observations were processed according to the obtained formulas and the mean-monthly diurnal variation of meteorological visibility distances vertically and horizontally on clear days is calculated. For the Alma-Ata region, a clearly expressed maximum for the morning hours and a minimum between 1200-1500 hours is revealed. The annual visibility variation with a maximum, in January and a minimum in August is obtained by this same method for this

DATE ACQ: 06Sep63

V. Gavrilov.

same region.

SUB CODE:

ENCL: 00

Card 2/2

ACCESSION NR: AR3000145

s/0272/63/000/005/0151/0151

SOURCE: RZh. Metrologiya i izmeritel naya tekhnika, Abs. 5.32.1022

AUTHOR: Gul'nitskiy, L. V.; Maslennikov, N. I.

TITLE: Particularization of the methods of measurement of scattered radiation

CITED SOURCE: Tr. Kazakhsk. s.-kh. in-ta. v. 9, 1961, 87-90

TOPIC TAGS: model compensation pyranometer; scattered radiation

TRANSLATION: Description of a model of a compensation pyranometer for measuring scattered radiation. The receiver plates are 2 disks, 50 nm in diameter and 0.1 mm thick, made of manganin wire. The external surfaces of the disks are coated with magnesium oxide; on one of the disks a layer of carbon black is superimposed on the magnesium oxide layer. Both surfaces are positioned in exactly the same manner within two re-

Card 1/2

ACCESSION MR: AR3000145

cesses of a metal disk covered with a spherical glass shield. The error of determination of intensity of scattered radiation does not exceed + or - 0.002 calorie cm sup -2 minute sup -1. Orig. art. has: 1 illustration. V. Merkulov

DATE ACQ: 21May63 ENCL: 00 SUB CODE: 00

GUL'NITSKIY, N.S.; PADYUKOV, M.V.; BAHAYEV, I.G.

Attaining the rated capacity of the mine No.38. Ugol' 35 no.7:23-25 J1 '60. (MIRA 13:7)

中国大学的《1987年》(1987年)(1987年)(1987年)(1987年)(1987年)(1987年)(1987年)(1987年)(1987年)(1987年)(1987年)(1987年)(1987年)(1987年) 全国大学的《1987年)(1987年)(1987年)(1987年)(1987年)(1987年)(1987年)(1987年)(1987年)(1987年)(1987年)(1987年)(1987年)(1987年)(1987年)

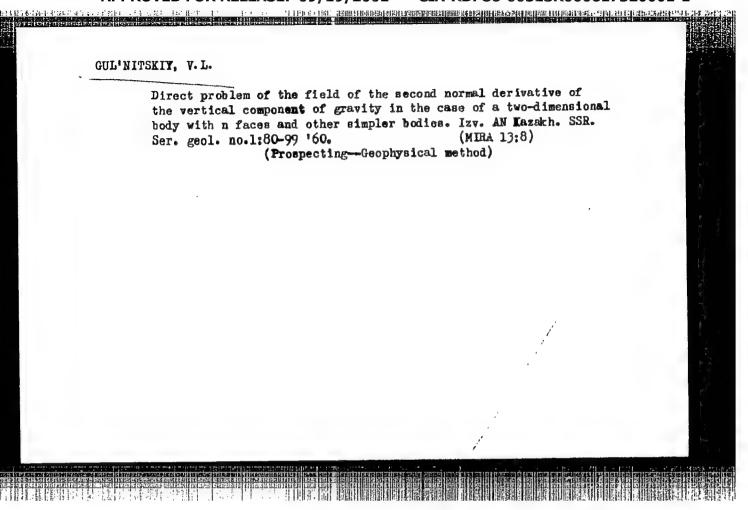
1. Nachal'nik Shakhty No.38 kombinata Karagandaugol' (for Gul'nits-kiyi)2. Nachal'nik planovogo otdela Shakhty No.38 kombinata Karagandaugol' (for Padyukov). 3. Mauchal'nik otdela organizatsii truda Shakhty No.38 kombinata Karagandaugol' (for Babayev).

(Karaganda Basin--Coal mines and mining)

GUL'NITSKIY, N.S.

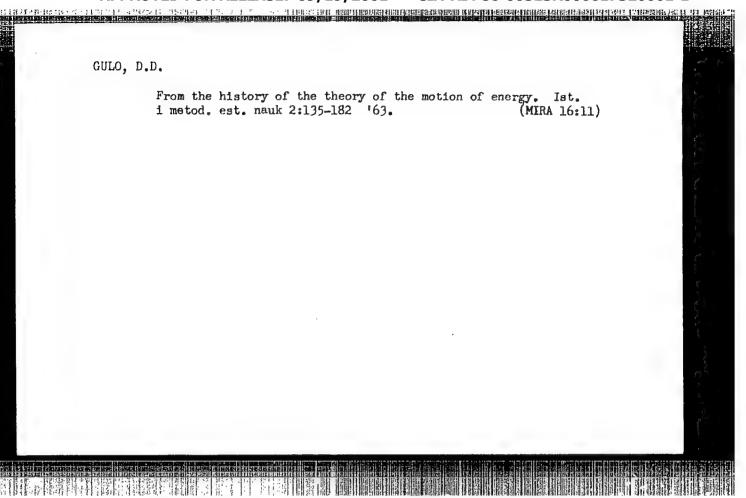
Competing for the honorable title of enterprise of Communist Labor.
Ugol' 36 no.4:1-4 Ap '61.

1. Nachal'nik shakhty No.38 tresta Kirovugol', Kombinata Karagandaugol'.
(Karaganda Basin—Coal mines and mining—Labor productivity)



GUL'HITSHIY, V.L.; MARONO, Yu.S.

Determination of the magnetic susceptibility of intrusions.
Trudy Inst.geol.nauk Ali Kazakh.SSR no.4,68-71 '61.
(HIRA 14:10)
(Rocks, Igneous-Magnetic properties)

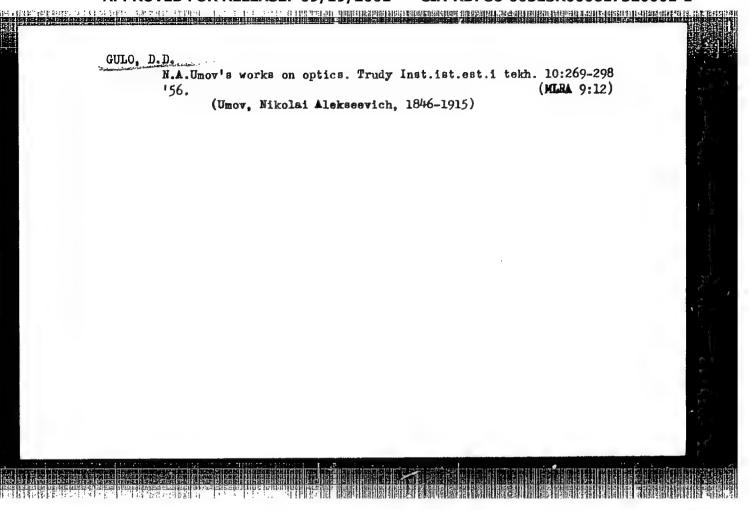


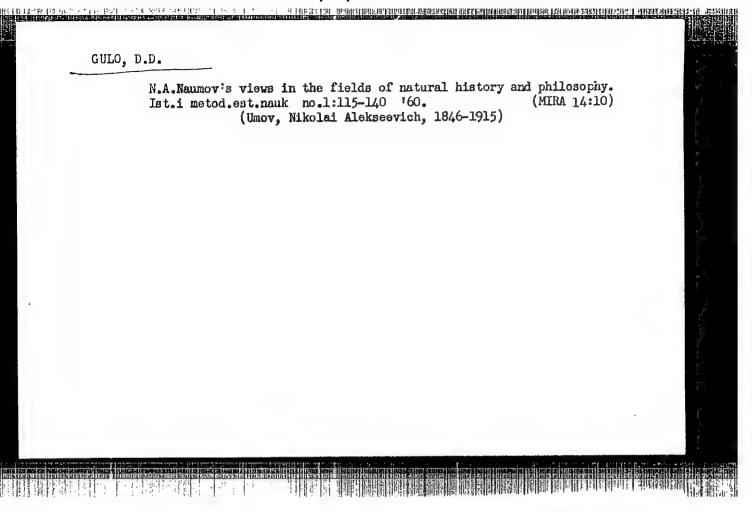
ARTSYBISHEV, Sergey Aleksandrevich; GULO, D.D., redakter; MARHOVA, N.N., tekhnicheskiy redakter.

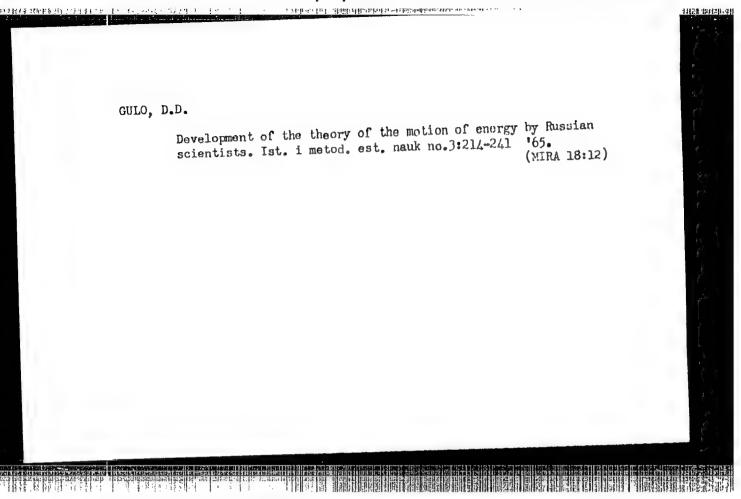
[Course in physics; textbeek for pedagegigal institutes] Kurs fiziki; uchebnee pesabic dlia pedagegicheskihi institutev. Meskva, Ges., uchebne-pedageg.ind-ve Ministerstva presveshcheniia RSFSR, Pt.2.

[Blectricity] Elektrichestve, 1955. 406 p.

(Electricity)







GULO, D.D.; KONONKOV, A.F., kand. fiz.-mat.nauk; OS!MOVSKIY, A.N.

History of the foundation of the State Optical Institute; on its 45th anniversary. Ist. i metod. est. nauk no.3:273202 '65.

(MIRA 18:12)

OULO, L.F.

Organization and operation of a center for the control of thrombosmbolic diseases; preliminary report. Zdrav.Row.Feder. (MIRA 12:11)
3 no.8:3-6 Ag '59.

1. Iz Leningradskoy stantsii ekoroy ponoshchi (glavnyy vrach V.H.Golyakov).

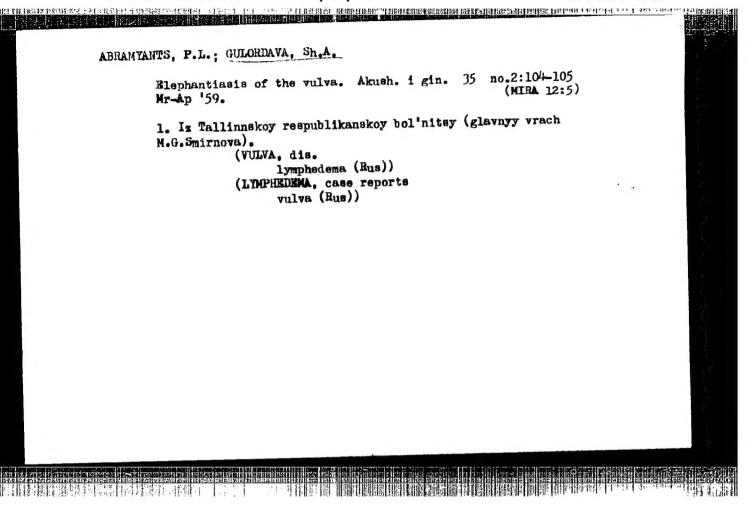
(BLOOD--CIRCULATION, DISORDERS OF-HOSPITALS)

(AFTICOAGULANTS (MEDICINE))

ZHEKOVA, Em.; GULCBOV, Iv.

Results and conclusions from the chemistry examinations in the secondary schools. Biol i khim 7 no.4:34-38 '64

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GULLON, H.V.

14-57-6-12995

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Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 6,

p 167 (USSR)

AUTHOR:

Gulov, A. V.

TITLE:

An Economic and Geographical Description of the Dubovskiy Rayon, in Rostovskaya Oblast (Ekonomikogeograficheskaya kharakteristika Dubovskogo rayona

Rostovskoy oblasti)

PERIODICAL:

Sb. stud. rabot. Rostovsk. finans.-ekon. in-t, 1956, Vol 17, pp 84-92

ABSTRACT:

The economic and geographical description is preceded by an agricultural appraisal of the region's natural resources. The author asserts that agriculture can be practiced successfully if the water balance of the region is attained by artificial means. For this purpose, protective forest belts are being planted and ponds and reservoirs are excavated; during the course

Card 1/2

# CIA-RDP86-00513R000617320001-1 APPROVED FOR RELEASE: 09/19/2001

An Economic and Geographical Description (Cont.)

of the present five year plan an irrigation and drainage canal will be extended from the Tsimlyanskoye vodokhramlisheha (reservoir). The agricultural economy is based mainly on cattle raising and on The article field crops. Cattle are raised for wool, meat and milk. describes culture in general, and also its separate branches; it notes its successful expansion under the fifth five year plan, and discusses its prospects under the sixth five year plan. The region's discusses its prospects under the sixth five year plan. industry is local in character, and is composed of enterprises which refine agricultural raw materials. Card 2/2